

WHAT IS CLAIMED IS:

1. A gas safety detector, comprising:

a base board;

a step motor mounted on a first side of the base board;

5 a sleeve rotatably mounted on the step motor;

a drive rod mounted on a periphery of the sleeve to rotate therewith;

a gas device mounted on a second side of the base board and having
an end provided with a retractable nozzle;

a link pivotally mounted on the base board and having a first end
10 rested on and driven by the drive rod and a second end formed with a hook
portion hooked on the nozzle of the gas device; and

a sensor mounted on the second side of the base board and located
adjacent to the nozzle of the gas device.

2. The gas safety detector in accordance with claim 1, wherein the
15 second side of the base board is formed with an upright support plate, and the
sensor is secured on the support plate of the base board.

3. The gas safety detector in accordance with claim 1, wherein the
step motor is provided with a rotation shaft, and the sleeve is secured on the
rotation shaft of the step motor to rotate therewith.

20 4. The gas safety detector in accordance with claim 1, wherein the
sleeve has a periphery formed with a screw bore, and the gas safety detector
further comprises a screw screwed into the screw bore of the sleeve and urged

on the rotation shaft of the step motor, so that the sleeve is secured on the rotation shaft of the step motor.

5 5. The gas safety detector in accordance with claim 1, further comprising a substantially Z-shaped catch plate having a first end secured on the base board and a second end rested on a mediate portion of the link.

6. The gas safety detector in accordance with claim 1, further comprising a substantially Z-shaped press plate having a first end secured on the base board and a second end rested on the gas device.

10 7. The gas safety detector in accordance with claim 1, wherein the gas device is formed with a rib located adjacent to the nozzle, and the second end of the link is formed with a shoulder located adjacent to the hook portion and rested on the rib of the gas device.

15 8. The gas safety detector in accordance with claim 5, wherein the link is limited by the catch plate to prevent deflection of the link due to an excessive hit of the drive rod of the sleeve.